OU see the soldiers had been puzzling poor Jack with their prob-

IN ANSWER TO THE

JACK TAR

bring it down to definite figures v

offered for the best answer

which was cast up on the sands of Coney Island was given a

straight tip that some of these wonderful messages from the sea may

It was even told that the following lines, which depict the situation of

Many of our clever puzzlists gave it up, and the wiseacres and anti-

have been drifting about in midocean for ages.

"A mighty ship I now command,

No goods have I to trade or sell,

with cargo rare from every land;

To neither port nor harbor bound,

My greatest wish-to run aground.

Each wind will serve my turn as well;

lems about cannon balls and hollow squares, when Jack retaliated by proposing the following, which must be pretty good for the reason that only two out of all the answers received were correct.

"The man on the lookout spied a big whale blowing about four miles off, and the captain detailed me to tell off a crew and go for her. We only had eleven men left, and of those three could steer, but could not row, while the rest could row but could not steer, and two of them could only row on bow side. I wanted to pick out a crew of eight men out of the eleven, so tell me how many different or possible arrangements I had to pick from."

The difficulties of the situation are dispelled by the following reasoning: There are 3 choices of a steersman, 15 ways of choosing 2 men out of 6 to complete the arrangement on the bow side. Also 24 ways of placing the 4 men on each side. So we get every possible combination by 3x15x24x24, which gives 2.5920 as the correct an-

The problem is a simple one, devoid of mathematical difficulty, when one has only hit up a method of solving it. MR. SAWYER, of No. 118 Ann street, Toronto, Canada, gave the cor-

rect answers to the cannon ball probthe \$5 for her skilful coloring of Alice IF THE COLUMBIA BEATS THE DEFENDER IN THE SAME PROPORTION AS THE DEFENDER BEATS. THE SHAMROCK, HOW MUCH WILL THE COLUMBIA BEAT THE SHAMROCK ON A lem and to the Jack Tar's puzzling

The Warning in the Jug.

to be based upon the following elementary rule. The smallest square pyra-

mid would be four balls capped with

one-5. The smallest triangular pyra-

mid would be three capped with 1=4;

and a single one which we will accept as the next smallest pyramid.

Therefore we get the rule that a

square pyramid contains as many balls

as two triangular ones, one of the same

base and one of the next size below Therefore the answer to the problem

of the 12x12 base which contains 650

can be converted into a 12x12 triangle 364, and the next lower 11x11=286, both together containing the 650 balls of the

OSEPHINE AMELIA BAKER

aged fourteen, of No. 4531 Frank

ford avenue, Philadelphia, wins

brain work was given to the construction of words or sentences which would read the same backward as well as forward. They were known as "palindrome" puzzles, which is a word derived from the Greek palin, backwards, and dramein, to run. There are many words, like level, eve, gig, etc., which read the same either way, but the aim was rather to construct palindromic sentences, like Adam's noted greeting to Eve. "Madam, I'm Adam," or the sentence, "Name no one man," The idea is of very ancient origin, and there are some classical specimens in Latin and French which are often quoted. There is a famous one ascribed to Napoleon which might be stated as follows: Once, upon being asked whether he could have dictated terms to the whole of Europe, he re-plied: "J' etais en etat de le faire avant on m'emporte a l'île d'Eibe."

REDER REDRDER REDRURDER REDRUMURDER REDRUMURDER REDRURDER REDER RER

How Many Different Ways Can You Read the Warning Words, Red Rum and Murder?

The puzzle is to translate into an which will read same either way: "Able was I ere I saw Elba."

Here is an odd palindromic combination which I perpetrated in my early days for the benefit of a temperance organization, and which will try the patience and skill of our young puzzleists. The prob-lem is to begin from the outer R's and tell just how many different ways one can read the warning words RED RUM & MURDER, without being affected

NO. 1---STORY BOOK CHARADES FOR LITTLE ONES.

N former days, when word puzzles were in vogue, much study and IN THE PICTURE THERE ARE INDICATED THE TITLES OF THREE BOOKS WELL KNOWN TO EVERY CHILD IN THE UNITED STATES. THE LITTLE BOY OR GIRL WHO FIRST SENDS IN THE CORRECT SOLUTION TO THIS CHARADE WILL RECEIVE A PRIZE OF \$5 IN CASH. THIS DEPARTMENT IS EXCLUSIVELY FOR COMPETITION AMONG THE LITTLE ONES.



A PRETTY PITCH-PENNY PROBLEM.

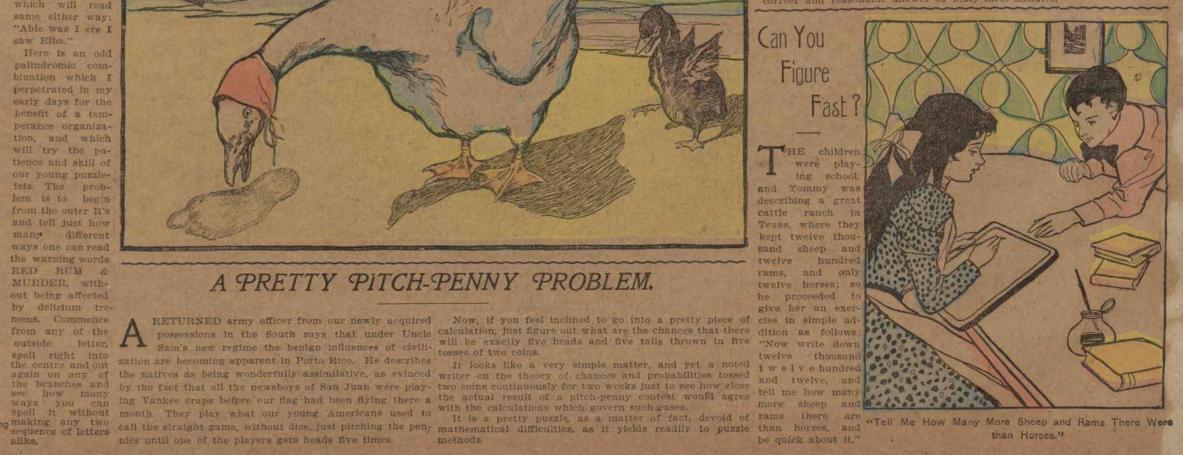
The College Crew Race.

T was stated in the college crew puzzle that a trained crew could row upstream in eighty-four minutes, and could row the same course down stream in nine minutes less than they could perform the feat in

can row down stream in nine minutes faster with the stream, that nine from the upstream time of eighty-four would give seventy-five as the performance in still water; therefore, in coming down with the stream the current would take off nine minutes from the seventy-five minutes time,

when they cannot make the actual time agree with their mathematics, and

F. L. SAWYER, of No. 118 Ann street, Toronto, Canada, wins the \$5 prize, by showing that there might be two possible answers; the one in twelve minutes, which would require a phenomenally swift current, or the correct and reasonable answer of sixty-three minute



The average solver fell into the popular error of saying that if they

Can You

Figure

and allow the rowers to perform the feat in sixty-three minutes.

This is the error which many practical rowers are confronted with

they claim speeds which do not tally with facts.